

MEHMET GÖRKEM KARABULUT

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Education

2014 – Present (dissertation stage)

M.Sc. in Mechanical Engineering, İzmir Institute of Technology, Department of Mechanical Engineering, İzmir, Turkey. (Grade: 3,85)

M.Sc. Thesis: Development of MR-fluid based semi-active dampers to be used in haptic devices

April – September 2015

Erasmus+ Master Project Mobility, RWTH Aachen University, Department of Mechanism Theory and Dynamics of Machines, Aachen, Germany.

M.Sc. Project: Control Engineering of a Haptic Feedback Device (Grade: 1,3 – outstanding achievement)

2009 – 2013

B.Sc. in Mechanical Engineering, Celal Bayar University, Department of Mechanical Engineering, Manisa, Turkey (Grade: 3,19)

B.Sc. Thesis: Design and manufacture of an autonomous orientated solar tracking system

Job Experience

May 2015 - Present

Design Engineer (fixed-term) – Bosch Thermotechnology, Manisa, Turkey

- 3D design of hydraulic group equipments
- Preparation of technical documents such as technical drawings, BOM
- Tolerance and O-ring calculation for mechanical parts

June – November 2013

R&D Engineer - MECALAC, İzmir, Turkey

- 3D modeling and revision of machine equipments using Solidworks
- Stress and life analyses of machine equipments using ANSYS
- Preparation of installation guides for assembly-line technicians

Scholarships and Funded Projects

April – September 2015 (ERASMUS+ Program)

Control Engineering of a Haptic Feedback Device - RWTH Aachen University, Aachen, Germany

- Dynamic simulation of a haptic feedback device using B&R Automation Studio as a real-time target for MATLAB/Simulink
- Development of PLC control program using B&R Automation Studio
- Force sensor calibration and filtration to get ready for operation
- Preparation of documentation in written as well as making presentations

September 2012 – June 2013

Design and Production of an Autonomous Orientated Solar Tracking System – Celal Bayar University, Manisa, Turkey

- Funded by the Scientific and Technological Research Council of Turkey (TÜBİTAK) and sponsored by MECALAC
- Awarded 2nd place in robot competition among national Universities taken place at Celal Bayar University
- Attended the final exhibition of industry-oriented graduation projects competition organized by TÜBİTAK

Languages

Turkish: Native

English: Advanced

German: Intermediate

Publications

1. M. G. Karabulut, B. Taner, M. İ. C. Dede "MR Sıvısı ile Çalışan Haptik Kol Tasarımı (Design of MR-fluid based Haptic Paddle)," TOK 2015 Bildiri Kitabı, Denizli, Türkiye, September 10-12, pp. 867-872, 2015.
2. M. G. Karabulut, M. İ. C. Dede, B. Taner "A Study on Selecting the Method of Constructing the Information to be Exchanged in Unlimited-workspace Bilateral Teleoperation," TrC-IFTToMM Symposium on Theory of Machines and Mechanisms, İzmir, Türkiye, June 14-17, pp. 619-625, 2015.
3. S. Boztaş, B. Taner, M. G. Karabulut, M. İ. C. Dede "Haptik Cihazlarda Yer Çekimi Telafisinin Kullanıcı Performansı Üzerindeki Etkileri (The Effects of the Gravity Compensation applied to Haptic Devices on Operator's Performance)," TOK 2014 Bildiri Kitabı, Kocaeli, Türkiye, 11-13 September, pp. 361-365, 2014.

Additional Information

Date of Birth & Place: January 8th 1991; İzmir, Turkey

Marital Status: Single

Military Status: Postponed (26.03.2018)

Computer Skills MS Office, NX Unigraphics, SolidWorks, ANSYS, MATLAB/Simulink, B&R Automation Studio, C/C++

Certifications

- NX Temel CAD – Bogazici Yazılım (August 2016)
- Deutschkurs (Niveau B2.1) Teilnahmebestaetigung – Goethe Institut (April – June 2016)

References

Özgür Günay - Former General Manager, MECALAC, İzmir, Turkey
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Thomas Kölling (Erasmus project supervisor) - Scientific Employee, Department of Mechanism Theory and Dynamics of Machines, RWTH Aachen University, Aachen, Germany
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Dr. M. I. Can Dede (M.Sc. thesis supervisor) - Assistant Professor, Department of Mechanical Engineering, İzmir Institute of Technology, İzmir, Turkey
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